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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/079,559	02/22/2002	Hamid R. Mehrvar	13528-174US	6934
75	11/28/2005		EXAMINER	
Ogilvy Renault			HALIYUR, VENKATESH N	
Suite 1600			ART UNIT	PAPER NUMBER
1981 McGill College Avenue				
Montreal, QC H3A 2Y3			2664	
CANADA			DATE MAILED: 11/28/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		ık .				
		Application No.	Applicant(s)			
		10/079,559	MEHRVAR ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Venkatesh Haliyur	2664			
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	orrespondence address			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DYNAMING BY STATE OF A STATE	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from . cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 02/22	<u>2/2002</u> .				
2a) <u></u> □	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
3)[	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
4)🖂	Claim(s) 1-28 is/are pending in the application.	•				
	4a) Of the above claim(s) is/are withdraw	wn from consideration.	•			
·	5) Claim(s) is/are allowed.					
•	Claim(s) <u>1-28</u> is/are rejected.					
	Claim(s) is/are objected to.	u alaatian maayiramaat				
8)∟	Claim(s) are subject to restriction and/o	r election requirement.				
Applicat	ion Papers					
, —	The specification is objected to by the Examine					
10) $\boxtimes$ The drawing(s) filed on <u>02/22/2002</u> is/are: a) $\boxtimes$ accepted or b) $\square$ objected to by the Examiner.						
	Applicant may not request that any objection to the					
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex					
<b>Priority</b>	under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachme	nt(s)	_				
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  Paper No(s)/Mail Date						
3) 🔲 Info	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date <u>none</u> .		Patent Application (PTO-152)			

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## **DETAILED ACTION**

1. Claims 1 – 28 have been examined.

## Claim Rejections - 35 USC § 102

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-28 are rejected under 35 U.S.C. 102(e) as being anticipated by Aukia et al. [US Pat: 6,594,268].

Regarding claims 1,18, Aukia et al. disclosed in their invention of "Adaptive routing System and Method for QoS Packet Network", a method for conveying (routing) an both high and low latency (delay/QoS) traffic streams across a switching fabric with at least two diverse paths (multi-path) mapped through the switch fabric [item 206 of Fig 2, column 8, lines 62-67, column 9,lines 60-66,column 10,lines 3-23], each path being optimized to satisfy respective different latency requirements and a latency classifier [item 506 of Fig 5] adapted to route each traffic stream to a selected path optimized to satisfy latency requirements most closely matching a respective latency requirement of the traffic stream [Figs 2 & 5, column 5, lines 59-67,column 6, lines 1-66, column 13,lines 32-67,column 14,lines 1-44].

Regarding claims 2,9,19, 20, Aukia et al. disclosed that traffic streams for each path are processed independently (concurrently) and buffered (item 205 of Fig 2) with in a respective input queue of the path [Fig 2, column 10, lines 3-23].

Regarding claims 3,4, Aukia et al. disclosed that each path is mapped through respective different physical infrastructure (routers) of the switch fabric [item 206 of Fig 2, column 9,lines 1-5] and two or more paths are mapped through a common physical infrastructure capable of supporting the path optimized to satisfy the most demanding latency requirements (QoS) [column 4, lines 62-67,column 5, lines 1-8].

Regarding claim 5,6,21,22, Aukia et al. disclosed the step of selectively coupling each one of a plurality of upstream channels to a selected one of the paths, such that a respective traffic stream of a communications session mapped through one of the upstream channels is automatically routed to the selected path [column 5, lines 1-8] and the selected (new) path is determined at a time of set-up of the communications session [column 5, lines 2-17].

Regarding claims 7,8,12,23, Aukia et al. disclosed that packet classifier extracts (collect) network management and critical mission (control) message content from each traffic stream [column 6,lines 20-67,column 7, lines 1-5] and control messages are routed on a different path (signaling) from that of traffic stream (data) [items 504,508 of Fig 5, column 10,lines 24-63].

Regarding claim 10,12-14, 24, Aukia et al. disclosed that for path selection process comprises a respective prioritization classifier adapted to control a priority (TOS field of packet header) of each traffic stream being conveyed through the path [Fig 8,

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column 17,lines 64-67,column 18,lines 1-44] including SONET links [column 6,lines 7-18].

Regarding claims 11,25, Aukia et al disclosed that each input queue comprises buffers [items 203 & 205 of Fig 2, Fig 4, column 12, lines 38-67, column 13, lines 1-31], each buffer being adapted to store data of at least one traffic stream being conveyed through the path and a scheduler for controlling transmission of data from each buffer through the path and the selected buffer being selected based on a content of a predetermined field of the respective overhead of each traffic stream and controlling transmission of data from each buffer through the path [column 3, lines 21-28, column 10, lines 3-24].

Regarding claim 15, 26, 27, Aukia et al. disclosed that the predetermined field (packet header) comprises a respective DSCP (differentiated services) field of each Internet Protocol (IP) traffic stream being conveyed through the path [column 1, lines 55-67,column 2, lines 1-19,column 3, lines 21-67, column 4, lines 1-20].

Regarding claims, 16,17,28, Aukia et al. disclosed the step of separating, routing and round robin scheduling (fairness based on QoS) responsive (TCP) and non-responsive (IP/UDP) traffic streams at a respective egress [item 207 of Fig 2] end of each path [Fig 2, column 3, lines 54-67, column 4, lines 1-19, column 10, lines 48-62].

## Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The prior art in reference here is Aukia et al.

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3. Any inquiry concerning this communication or earlier communications should be directed to the attention to Venkatesh Haliyur whose phone number is 571-272-8616. The examiner can normally be reached on Monday-Friday from 9:00AM to 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached @ (571)-272-3134. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the

group receptionist whose telephone number is (571)-272-2600 or fax to 571-273-8300.

4. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197(toll-free).

Ajit Patel
Primary Examiner